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(71)Applicant : TOYOBO CO LTD

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(72)Inventor : YAGI TOSHIYUKI
KUSANO MICHIO
ONO HITOSHI

(54) LEAK TEST METHOD FOR HYDROPHOBIC HOLLOW YARN TYPE POROUS MEMBRANE

(57)Abstract:

PURPOSE: To pack a liquid for leak test into the fine pores of the hollow yarn membrane so that an exact leak test can be carried out by using the liquid prepd. by dissolving a high boiling point solvent which can be used for a treatment for hydrophilicity impartation at 0.1 to 1.0wt.% into the liquid for leak test.

CONSTITUTION: The liquid prepd. by dissolving 0.1 to 1.0wt.% high boiling point solvent which can be used for the treatment for hydrophilicity impartation into the liquid for leak test is used for the hydrophobic hollow type porous membrane having $\geq 0.01\mu\text{m}$ average pore size of the membrane. The liquid for leak test contg. the amphoteric solvent for the treatment for hydrophilicity impartation is packed into a hollow yarn membrane module container and is sufficiently impregnated into the hollow yarn membrane. A pressure below a bubble point is then applied to the opening end of the hollow yarn of the module by gas. The leak test of the membrane is executed in this way and after the test, the liquid for leak test is removed from the module and the membrane is dried by a ventilation drying, etc., or is rested as it is. The treating agent for hydrophilicity impartation remains uniformly on the membrane surface at this time so that the membrane maintains the state subjected to the treatment for hydrophilicity impartation.

LEGAL STATUS

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